

ABSTRACT

A battery cap is provided for engagement in a fill port of a cell of a deep cycle, lead-acid electrical storage battery. The battery cap is formed of a hollow, tubular body having an upper end with an expansive mouth opening, and a lower end at which a transverse floor extends radially inwardly. The floor includes a central, annular convex downwardly projecting portion that defines a central fluid passage opening. The interior of the tubular wall defines a radially inwardly projecting flame arrester seat spaced from both the upper and lower ends of the body. A pair of gas escape ports are defined in the tubular wall between the flame arrester seat and the mouth opening. A diverter is located in the lower portion of the tubular body beneath a disc shaped micropore filter that serves as the flame arrester and which is seated on the flame arrester seat. The diverter is formed with a generally disc shaped, horizontal plate having diametrically opposed notches at its peripheral edge and a pair of legs of that have an arcuate cross-section and which rest upon the floor to partially surround the central opening in the floor. A battery cap having this internal structure causes drops of electrolyte to intermittently lodge in the central floor opening, thereby forming a temporary fluid seal that is repeatedly broken to allow venting of gas and re-established to aid in protecting the micropore filter from contaminants.